Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date: 16.04.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	: **Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	: EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2020	16.04.2020	8.316	713.7	31.72
2	19.03.2020	16.04.2020	8.467	728.4	32.37
3	19.03.2020	16.04.2020	8.281	700.5	31.13

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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#M-32,25TH Main,LICRaoHousing,J.P Nagar 1st Phase,
Po Box 7826,Bengaluru-560078. Mobile:+91 9845167738 Tele Fax 080-41211493
E-mail:klsuguna7@gmail.com, www.ezdihaar.com

SAMRUDH

Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 24.02.2020

TEST REPORT ON ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Technical Reference	:	IS : 2720 (Part - 5)
Date of Testing	:	24.02.2020

As per MORTH Table : 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.85	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Po Box 7826,Bengaluru-560078. Mobile:+91 9845167738 Tele Fax 080-41211493
E-mail:klsuguna7@gmail.com www.sadhaan.com

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20

Date 26.02.2020

TEST REPORT ON ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Technical Reference	:	IS : 2720 (Part - 5)
Date of Testing	:	26.02.2020

As per MORTH Table : 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	21.90	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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E-mail:klsuguna7@gmail.com, www.ezdihaar.com

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 03.03.2020

TEST REPORT ON ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Technical Reference	:	IS : 2720 (Part - 5)
Date of Testing	:	03.03.2020

As per MORTH Table : 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.35	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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E-mail:klsuguna7@gmail.com www.ezdihaar.com

SAMRUDH

Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 07.03.2020

TEST REPORT ON ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Technical Reference	:	IS : 2720 (Part - 5)
Date of Testing	:	07.03.2020

As per MORTH Table : 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	21.40	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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E-mail:klsuguna7@gmail.com ,www.ezdihaar.com

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 24.02.2020

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Sample ID	:	Coarse Graded - V
Technical Reference	:	IS : 2720 (Part - 4)
Date of Testing	:	24.02.2020

Sample Source : GSB, Mix Plant **Oven Dry Wt (gm) :** 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3210	3210	64.20	35.80	25-45
0.075	1545	4755	95.10	4.90	<10
PAN	245				
Total	5000				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading V

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E-mail:klsuguna7@gmail.com, www.ezdihaar.com

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 26.02.2020

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Sample ID	:	Coarse Graded - V
Technical Reference	:	IS : 2720 (Part - 4)
Date of Testing	:	26.02.2020

Sample Source : GSB, Mix Plant **Oven Dry Wt (gm) :** 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3310	3310	66.20	33.80	25-45
0.075	1515	4825	96.50	3.50	<10
PAN	175				
Total	5000				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading V

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 03.03.2020

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Sample ID	:	Coarse Graded - V
Technical Reference	:	IS : 2720 (Part - 4)
Date of Testing	:	03.03.2020

Sample Source : GSB, Mix Plant **Oven Dry Wt (gm) :** 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3265	3265	65.30	34.70	25-45
0.075	1590	4855	97.10	2.90	<10
PAN	145				
Total	5000				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading V

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Po Box 7826,Bengaluru-560078. Mobile:+91 9845167738 Tele Fax 080-41211493

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Architects and Interior Designers

Job No.: CACE-BBMP-GNR-W.No.11-2019-20 Date 07.03.2020

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

Client	:	**Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Sri. G. N. Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains around Singapura, Singapura Garden, Raghavendra Colony, Teachers Layout, and MS Palya in Ward No. 11, Kuvempunagara, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/160/2019-20 Dated: 20.02.2020
Sample ID	:	Coarse Graded - V
Technical Reference	:	IS : 2720 (Part - 4)
Date of Testing	:	07.03.2020

Sample Source : GSB, Mix Plant **Oven Dry Wt (gm) :** 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3155	3155	63.10	36.90	25-45
0.075	1530	4685	93.70	6.30	<10
PAN	315				
Total	5000				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading V

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